Table A.4./.			10 42 Summary of Boring		iyucai Da	ita		
Boring/	Total	Depth		Maximum PID	~ -			
Date/	Depth of	to	Lithologic Description <sup>2</sup>	Response,	Sample	Sample ID		COC Concentrations greater
Report	Boring	Water <sup>1</sup>	(Observation Notes)	ppm <sub>v</sub> (Depth)	Type <sup>3</sup>	(Depth)	Analyses <sup>4</sup>	than Delineation Criteria
S1341	12	1.5	Fill: 0-11 (brick at 4-6; LNAPL—	113	O, S, F	S1341B	LNAPL	
9/11/02			black, motor oil consistency jar	(1-1.5)		(2-4)	characteristics	
Stabilization			test—blebs observed concrete					
Measures			fragments at 6.5-9)					
SWMU 42					0.0.5	G1241E2	* * * * * * * * * * * * * * * * * * * *	
					O, S, F	S1341E2	LNAPL	
						(8.5-9)	characteristics	
S1340	12	2.5	Fill: 0-10 (LNAPL—black, motor	42	O, S, F	S1340D4	LNAPL	
9/18/02			oil consistency, jar test<0.25" film	(3.5-4)		(7.5-8)	characteristics	
Stabilization			at 2.5-4)					
Measures SWMU 42			Clay 0.5.12					
SWMU 42 S0856/MW152	14	10	Clay: 9.5-12 Fill: 0-11.5	409	O, U, F	S0856A4	V,, S, M	Antimony: 161 mg/kg
8/26/02	14	10	Fill. 0-11.3	(11)	0, 0, 1	(1.5-2)	V ,, S, M	Iron: 24900 mg/kg
Full RFI			Peat: 11.5-12.5	(11)		(1.5-2)		Lead: 977 mg/kg
AOC 16-EY1			Clay: 12.5-14					Ecua. 777 mg/kg
					O, S, N	S0856F3	V, S, M	Acetone: 110 mg/kg (Impact to
					-,-,-	(11-11.5)	., _,	Groundwater—not applicable)
						,		11 /
					O, S, N	S0857G3	V, S, M	Iron: 44300 mg/kg
					0, 5, 11	(13-13.5)	v, 5, 1vi	Holl. 44500 mg/kg
						(10 10.0)		
					Water	MW152	V, S, M,	Bis(2ethyl hexyl)phthalate: 310 ug/L
					w ater	(10/7/02)	water quality	Bis(2ethyl nexyl)phthalate. 310 ug/L
						(10/7/02)	water quarity	Arsenic: 26.6 ug/L
RW0061	10	5	YE'll, 0, 0 (staining thousands a see	2040	None			Thomas 2010 ag E
5/31/01	10	3	'Fill: 0-9 (staining through core, petroleum odor at 0-7; saturated with	(4-5)	None			
Stabilization			free phase at 4-7)	(4-3)				
Measures			nee phase at 4-7)					
MW0073	11	3	Fill: 0-9 (brick fragments at 7-8;	1094	None			
8/21/00		,	odor, sheen at 4-9)	(7-8)	1.0110			
Stabilization			,	(, =)				
Measures			Clay: 9-11					
MW0051	11	3			None			
9/29/99								
Stabilization								
Measures								
H0450	12	2	Fill: 0-5	0	Water	H0450	V, S, M	Arsenic: 78.3 ug/L
10/13/99								Lead: 70.7 ug/L
2 <sup>nd</sup> OWSS			Clay: 5-12					
AOC 16-EY1								

<u>I able A.4./.</u>	East Yard SWMU 42 Summary of Boring Log and Analytical Data								
Boring/	Total	Depth		Maximum PID					
Date/	Depth of	to	Lithologic Description <sup>2</sup>	Response,	Sample	Sample ID		COC Concentrations greater	
Report	Boring	Water <sup>1</sup>	(Observation Notes)	ppm <sub>v</sub> (Depth)	Type <sup>3</sup>	(Depth)	Analyses <sup>4</sup>	than Delineation Criteria	
M51TPZ9	12	3.5	Fill: 0-8: Fly ash, hydrocarbon odor	437	None	•	•	No LNAPL	
2/5/99			at 0-2.5; fly ash, brick fragments at	(3-4)					
Stabilization			2.5-8						
Measures									
SWMU 42			Clay: 8-12						
M51TPZ8	12	4.1	Fill: 0-9: Fly ash zones, hydrocarbon	199	None			No LNAPL	
2/5/99			odor at 1-9	(4-5)					
Stabilization			CI 0.12						
Measures SWMU 42			Clay: 9-12						
M51TPZ7	12	5.2	Fill: 0-8: brick fragments, fly ash,	2.3	None			LNAPL sheen	
2/5/99	12	3.2	some residual LNAPL on water in	(5-6)	None			LIVAPL SHEEH	
Stabilization			spoon, hydrocarbon odor at 4-8	(3-0)					
Measures			spoon, nydrocaroon odor at 1 o						
SWMU 42			Clay: 8-12						
M51TPZ6	12	4.3	Fill: 0-8: brick fragments,	164	None			LNAPL present	
2/5/99			hydrocarbon odor at 3-4; Fly ash,	(5-6)				•	
Stabilization			black stained, some residual LNAPL	, ,					
measures			at 4-6						
SWMU 42									
			Organic clay: 8-12; cattails						
M51TPZ5	12	5.25	Fill: 0-10: hydrocarbon odor, trace	149	None			LNAPL present	
2/5/99			residual LNAPL at 0-4; Black	(3-4)					
Stabilization Measures			throughout core, LNAPL present (bleeding) at 4-8; fly ash						
SWMU 42			,hydrocarbon odor at 7-8						
5 W WIO 42			,nydrocarbon odor at 7-8						
			10-12: Clay						
M51TPZ4	12	4.41	Fill: 0-11: Brick fragments,	104	None			LNAPL present	
2/4/99			hydrocarbon odor at 0-4; LNAPL	(6-7)				1	
Stabilization			bleeding from core, hydrocarbon	` /					
Measures			odor at 4-8; globules of LNAPL						
SWMU 42			present at 8-12						
			Organic clay: 11-11.5						
M51TD72	1.1	( ( (	Silty sand: 11.5-12	24.4	N			N. I.MADI	
M51TPZ3	11	6.66	Fill: 0-ll: hydrocarbon odor at 4;	24.4	None			No LNAPL	
2/4/99 Stabilization			residual LNAPL in core at 0-4	(3-4)					
Measures			Clay: 8-11						
SWMU 42			Clay. 0-11						
3 W WIO 42									

1 able A.4. /.			10 42 Summary of Boring	, ,	iyucai Da	ia		
Boring/	Total	Depth		Maximum PID				
Date/	Depth of	to	Lithologic Description <sup>2</sup>	Response,	Sample	Sample ID		COC Concentrations greater
Report	Boring	Water <sup>1</sup>	(Observation Notes)	ppm <sub>v</sub> (Depth)	Type <sup>3</sup>	(Depth)	Analyses <sup>4</sup>	than Delineation Criteria
M51TPZ2	11	6.71	Fill: 0-11: Brick fragments at 0-2	933	None		•	No LNAPL
2/4/99			Fly ash, black, hydrocarbon odor,	(4-5)				
Stabilization			LNAPL at 3.5-6	( - )				
Measures								
SWMU 42								
M51TPZ1	12	6.34	Fill: 0-8.2: brick fragments,	918	None			LNAPL present
2/4/99			hydrocarbon odor, black staining at	(5-6)				
Stabilization			0-4; Fly ash, black stained LNAPL	, ,				
Measures			bleeding at 7-12					
SWMU 42								
M51TP20	12	7.6	Fill: 0-11: black staining and odor at	388	None			LNAPL present
9/27/99			4-11	(9-10)				
Stabilization								
Measures			Clay: 11-12					
SWMU 42								
M51TP19	12	7.2	Fill: 0-10	12	None			LNAPL present
9/27/99				(8-10)				
Stabilization			Clay: 10-12					
Measures								
SWMU 42								
M51TP18	12	5.5	Fill: 0-11	93	None			LNAPL present
9/27/99				(10-12)				
Stabilization			Clay: 11-12					
Measures								
SWMU 42								
M51TP17	12	5.44	Fill: 0-10: Brick fragments at 0-4;	19.8	None			No LNAPL
6/28/99			hydrocarbon odor at 7-10; black	(9-10)				
Stabilization			stained, some black liquid at 8-10					
Measures			GI 10.12					
SWMU 42	12	4.5	Clay: 10-12	0	N			N. INIADI
M51TP16 6/3/99	12	4.5	Fill: 0-9.5:	0	None			No LNAPL
6/3/99 Stabilization			Clay: 0.5.12					
Measures			Clay: 9.5-12					
SWMU 42								
M51TP15	12	4.68	Fill: 0-9: black stained at 0.5-1.5;	236	None			Sheen present
6/3/99	14	4.00	coke fines, hydrocarbon odor at 1.5-	(1-2)	INOILE			Sheen present
Stabilization			3; broken nitrified clay pieces,	(1-2)				
Measures			concrete rubble, black liquid at 7-8					
SWMU 42			concrete rubble, black riquid at 7-6					
5 11 110 72			Clay: 9-12					
1		l	Ciay. 7-12			l		<u> </u>

<b>Table A.4.7.</b>	East Ya	<u>rd SWN</u>	<b>1U 42 Summary of Boring</b>	g Log and Ana	lytical Da	ıta		
Boring/ Date/ Report	Total Depth of Boring	Depth to Water <sup>1</sup>	Lithologic Description <sup>2</sup> (Observation Notes)	Maximum PID Response, ppm <sub>v</sub> (Depth)	Sample Type <sup>3</sup>	Sample ID (Depth)	Analyses <sup>4</sup>	COC Concentrations greater than Delineation Criteria
M51TP14 4/4/99 Stabilization Measures SWMU 42	13	4.76	Fill: 0-10: LNAPL at 4-10; Fly ash with some brick at 5-7.5; hydrocarbon odor at 1-7.5  Clay: 10-11.6	597 (7-8)	None			No LNAPL
M51TP13 3/26/99 Stabilization Measures SWMU 42	14	1.11	Fill: 0-12.6: Odor at 1; Fly ash at 7 and 12.5; Black staining and hydrocarbon odor at 8.5-12.6; Black "tar"like material at 11.5-12  Clay: 12.5-13  No recovery: 13-14	337 (9)	None			No LNAPL
M51TP12 3/25/99 Stabilization Measures SWMU 42	14	6.44	Fill: 0-12.6: Odor at 0-2.5; Flay ash at 7 Black staining and odor at 8.5-12; black "tar" like material at 11.5-12; black staining, fly ash at 12.3-12.5 Clay: 12.5-13	337 (8)	None			Sheen present
M51TP11 2/10/99 Stabilization Measures SWMU 42	12	3.11	Fill: 0-11.5 Clay: 11.5-12	0	None			No LNAPL
M51TP10 2/10/99 Stabilization Measures SWMU 42	12	3.58	Fill: 0-10.5: Hydrocarbon odor at 0-9; sheen on water surface at 5-9 Clay: 10.5-11.5 Silt: 11.5-12	74 (5-6)	None			LNAPL sheen
S42TPZ3 8/6/98 1st Groundwater SWMU 42	10		Fill: 0-10: very strong hydrocarbon odor at 0-4; fly ash, hydrocarbon LNAPL through core, bleeding from core at 4-6.6; hydrocarbon odor at 6.6-10	2960 (1-2)	None			LNAPL detected
S42TPZ2 8/6/98 1st Groundwater SWMU 42	12	4.97	Fill: 0-11: trace coal fragments at 0-6; fly ash at 5.5-6  Gray fat clay: 11-12 (cattails, peat layer at 11.5)	0	None			No LNAPL
S42TPZ1 8/6/98 1st Groundwater SWMU 42	12	2.34	Fill: 05: Slight hydrocarbon odor; fly ash 8-9.5) Gray clay: 9.5-10 No recovery: 10-12	0	None			No LNAPL

<b>Table A.4.</b> /.		ra SWN	<b>1U 42 Summary of Borin</b>		nyticai da	ta		
Boring/	Total	Depth		Maximum PID				
Date/	Depth of	to	Lithologic Description <sup>2</sup>	Response,	Sample	Sample ID		COC Concentrations greater
Report	Boring	Water <sup>1</sup>	(Observation Notes)	ppm <sub>v</sub> (Depth)	Type <sup>3</sup>	(Depth)	Analyses <sup>4</sup>	than Delineation Criteria
PE040	Doring	vv ater	(Observation Potes)	рршу (Берин)	Post	PE040A	V, TPH	Benzene: 4.97 mg/kg
6/11/98					excavation	I LOTOA	٧, 1111	TPH: 24700 mg/kg
0/11/70					CACAVATION			1111. 24700 mg/kg
DE020					D (	DE0204	TPH	N
PE039					Post	PE039A	IPH	None
6/5/98					excavation			
PE038					Post	PE038A	TPH	None
6/5/98					excavation			
DE025						DE025.	TDY	TDV 01500 #
PE037					Post	PE037A	TPH	TPH: 21700 mg/kg
6/5/98					excavation			
DE026					D .	DE0264	TDII	N
PE036					Post	PE036A	TPH	None
5/4//98					excavation			
PE035					Post	PE035A	ТРН	None
6/5/98					excavation	PEUSSA	IPH	None
0/3/98					excavation			
PE0034					Post	PE0034SA	V, S, TPH	None
12/3/97					excavation	PE00343A	v, s, 1PH	None
12/3/9/					excavation			
PE0033					Post	PE0033SA	V, S, TPH	None
12/3/97					excavation	PEUUSSSA	v, s, 1PH	None
12/3/97					excavation			
PE0032					Post	PE0032SA	V, S, TPH	None
12/3/97					excavation	1 20032571	٧, ٥, ١١١١	Trone
12/3/97					CACA VALION			
PE0027					Post	PE0027A	V, S, TPH	None
11/13/96					excavation	1 2002/11	٧, ٥, ١١١١	Trone
11/15/50					CACA VALION			
PE0026					Post	PE0026SA	V, S, TPH	None
11/13/96					excavation	120020811	., 2, 1111	Troile
11/10/90					5115th / thirties			
PE0025					Post	PE0025SA	V, S, TPH	None
11/13/96					excavation	- 20020071	., 2, 1111	
PE0024					Post	PE0024SA	V, S, TPH	None
11/13/96					excavation	120021571	,, 5, 1111	1.000
11,15,70								
				]	L			

<u> 1 abie A.4./.</u>			1U 42 Summary of Boring	, ,	ilyticai Da	ıa		
Boring/	Total	Depth		Maximum PID				
Date/	Depth of	to	Lithologic Description <sup>2</sup>	Response,	Sample	Sample ID		COC Concentrations greater
Report	Boring	Water <sup>1</sup>	(Observation Notes)	ppm <sub>v</sub> (Depth)	Type <sup>3</sup>	(Depth)	Analyses <sup>4</sup>	than Delineation Criteria
PE0023					Post	PE0023SA	V, S, TPH	None?
11/13/96					excavation			
PE0022					Post	PE0022SA	V, S, TPH	None
11/13/96					excavation		, ,	
SB0276			Sample collected through crack in			SB0276SA	V, S, TPH	None
1/23/97			slab floor			1-2	,, 2, 1111	T tone
1st Groundwater								
SWMU 42								
SB0275			Sample collected through crack in			SB0275Sa	V, S, TPH	None
1/23/97			slab floor			1-2		
1st Groundwater								
SWMU 42								
SB0274			Sample collected through crack in			SB0274SA	V, S, TPH	None
1/23/97			slab floor			1-2		
1st Groundwater								
SWMU 42								
H0451	12	3	Fill: 0-9: brick fragments, odor,	1094	Water	H0451	LNAPL	LNAPL detected
10/13/99			sheen, at 7-9	(7-8)				
2 <sup>nd</sup> OWSS			C1 0.12					
AOC 16-EY1 SB0281	8	5	Clay: 9-12	345	OCE	SB0281SC	V C M TDII	Numbel along 170 mg/kg (immunet to
5/14/97	8	3	Fill: 0-8: Strong petroleum odor at 2-8; black staining at 6-8	(4-6)	O, S, F		V, S, M, TPH	Naphthalene: 170 mg/kg (impact to groundwater—not applicable)
1 <sup>st</sup> OWSS			2-6, black staining at 0-6	(4-0)		(6-7)		grounawater—not applicable)
AOC 16-EY1								
HP0061	6	3	Fill: 0-6: black staining at 0-2; gray	13	Water	HP0061A	V, S, M	Antimony: 245 ug/L
10/18/96		3	staining at 2-6	(0-2)	***************************************	111 000171	7,5,111	Arsenic: 782 ug/L
1st OWSS				(* -)				Barium: 2550 ug/L
AOC 16-EY1								Chromium: 1060 ug/L
								Lead: 7.17 ug/L
								Mercury: 7.17 ug/l
								Nickel: 620 ug/L
								Selenium: 117 ug/L
								Vanadium: 951 ug/L

<u> 1 abie A.4./.</u>	Last Ya	ru Sww	<u>10 42 Summary of Boring</u>	g Log and Ana	iyucai da	ıa		
Boring/	Total	Depth		Maximum PID				
Date/	Depth of	to	Lithologic Description <sup>2</sup>	Response,	Sample	Sample ID		COC Concentrations greater
Report	Boring	Water <sup>1</sup>	(Observation Notes)	ppm <sub>v</sub> (Depth)	Type <sup>3</sup>	(Depth)	Analyses <sup>4</sup>	than Delineation Criteria
HP0059	8	5	Fill: 0-8: Petroleum odor at 2-8;	1844	Water	HP0059A	V, S, M	Benzene: 42 ug/L
10/18/96 1 <sup>st</sup> OWSS AOC 16-EY1			staining at 4-8, sheen at 6-8	(2-4)				2-methylnaphthalene: 290 ug/L
								Arsenic: 658 ug/L Barium: 3650 ug/L
								Beryllium: 60 ug/L Cadmium: 8.5 ug/L
								Chromium: 1730 ug/L Cobalt: 3150 ug/L
								Lead: 3150 ug/L
								Nickel: 1580 ug/L Vanadium: 2290 ug/L
HP0044	8	5	Fill: 0-8: petroleum odor and	1903	Water	HP0044A	V, S, M	Benzene: 24000 ug/L
9/30/96			staining at 1.8-8	(6-8)				Ethylbenzene: 150000 ug/L
1 <sup>st</sup> OWSS AOC 16-EY1								Toluene: 46000 ug/L
AUC 10-EY1								Xylenes: 1200000 ug/L
								Benzo(a)anthracene: 21 ug/L
								Benzo(b)fluoranthene: 13 ug/L
								Benzo(k)fluoranthene: 5 ug/L 1-Methylnaphthalene: 3600 ug/L
								2-Methylnaphthalene: 6900 ug/L
								Indene: 770 ug/L
								Naphthalene: 7300 ug/L
								Arsenic: 167 ug/L
								Beryllium: 21 ug/L
								Cadmium: 13 ug/L Lead: 2740 ug/L
								Nickel: 143 ug/L
								Vanadium: 415 ug/L

## NOTES:

Benzene and benzo(a)pyrene are highlighted in bold because they are indicator constituents of concern (COCs)

Shaded rows indicate samples collected from nearby SWMUs/AOCs

ppm<sub>v</sub> = parts per million (volume basis)

All depths referenced on this summary table are in feet below the ground surface.

PID = Photoionization detector.

ID = Identifier.

mg/kg = milligrams per kilogram (equivalent to parts per million).

 $\mu g/L$  = micrograms per liter (equivalent to parts per million).

<sup>1</sup>Depth to water as observed during borehole advancement.

<sup>2</sup>"Fill" encountered within the completed borings was characteristically described as an asphalt layer (typical) underlain by a heterogeneous gravel to clay mixture of unconsolidated materials, ranging in color from tan to gray with occasional construction debris (e.g., brick) present. In some locations, the fill material is further characterized by containing a slag or beaded material, in which case it is noted within the table. Also noted on the table are any other olfactory or visual observations that indicate potential petroleum-type impacts within the fill unit were observed.

<sup>3</sup>P - property boundary, O - on-site, U - unsaturated, S - saturated, F - fill, N - native. "None" indicates that no sample was collected.

<sup>4</sup>V – VOCs, S – SVOCs, M – metals, Pb – lead, TOL – total organic lead, TEL – tetraethyl lead, TPH – Total Petroleum Hydrocarbons; SPLP -- Synthetic Precipitation Leaching Procedure; -Phys. Char. -- physical characteristics.